

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 220002059711

Application Number 09/823,418

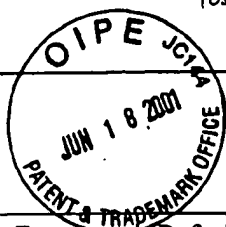
Applicant

Thomas INNERARITY and Jan BOREN

Filing Date March 29, 2001

Group Art Unit 1641

Mailing Date June 12, 2001



U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
00	1.	07/28/1987	4,683,195	Mullis et al.	435	6	
	2.	07/28/1987	4,683,202	Mullis	435	91.2	
	3.	08/18/1992	5,139,941	Muzyczka et al.	435	456	
	4.	09/27/1994	5,350,671	Houghton et al.	435	5	
	5.	03/21/1995	5,399,346	Anderson et al.	424	93.2	
	6.	12/03/1996	5,580,859	Felgner et al.	514	44	
	7.	08/12/1997	5,656,465	Panicali et al.	435	456	
	8.	09/30/1997	5,672,344	Kelley et al.	424	93.2	
00	9.	12/22/1998	5,851,529	Guber et al.	424	188.1	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
00	10.	09/13/1984	WO 84/03506	PCT			
	11.	09/13/1984	WO 84/03564	PCT			
	12.	02/09/1995	WO 95/04064	PCT			
	13.	12/10/1986	0 200 362 B1	Europe			
	14.	12/17/1986	0 201 184 B1	Europe			
00	15.	07/22/1987	0 229 701 B1	Europe			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
00	16.	<u>Antibodies: A Laboratory Manual</u> . (1988) Harlow, E. and D. Lane, Eds. (Table of Contents).
00	17.	Arnold, K. et al., (1992). "Lipoprotein-Receptor Interactions" in <u>Lipoprotein Analysis. A Practical Approach</u> . Converse, C. A. and E. R. Skinner, Eds. Oxford University Press: Oxford. pp. 145-168.

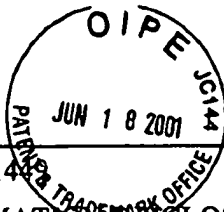
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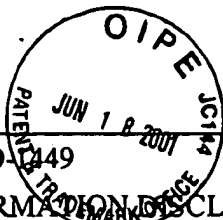
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18.	Basu, S. et al. (1976). "Degradation of Cationized Low Density Lipoprotein and Regulation of Cholesterol Metabolism in Homozygous Familial Hypercholesterolemia Fibroblasts" <i>Proc. Natl. Acad. Sci. USA</i> 73:3178-3182.
19.	Borén, J. et al. (1996). "A Simple and Efficient Method for Making Site-Directed Mutants, Deletions, and Fusions of Large DNA Such as P1 and BAC Clones," <i>Genome Res.</i> 6:1123-1130.
20.	Borén, J. et al. (1998). "Identification of the Low Density Lipoprotein Receptor-Binding Site in Apolipoprotein B100 and the Modulation of its Binding Activity by the Carboxyl Terminus in Familial Defective apo-B100," <i>J. Clin. Invest.</i> 101:1084-1093.
21.	Camejo, G. et al. (1980). "Factors Modulating the Interaction of LDL with an Arterial Lipoprotein Complexing Proteoglycan: The Effect of HDL," <i>Acta. Med. Scand. Suppl.</i> 642:159-164.
22.	Camejo, G. et al. (1988). "Identification of Apo B-100 Segments Mediating the Interaction of Low Density Lipoproteins with Arterial Proteoglycans," <i>Arteriosclerosis</i> 8:368-377.
23.	Camejo, G. et al. (1993). "Binding of Low Density Lipoproteins by Proteoglycans Synthesized by Proliferating and Quiescent Human Arterial Smooth Muscle Cells," <i>J. Biol. Chem.</i> 268:14131-14137.
24.	Capecchi, M. (1989). "Altering the Genome by Homologous Recombination," <i>Science</i> 244:1288-1292.
25.	Cardin, A. et al. (1987). "Physical-Chemical Interaction of Heparin and Human Plasma Low-Density Lipoproteins," <i>Biochemistry</i> 26:5513-5518.
26.	Cardoso, L.E. et al. (1994). "Glycosaminoglycan Fractions from Human Arteries Presenting Diverse Susceptibilities to Atherosclerosis Have Different Binding Affinities to Plasma LDL," <i>Arterioscler. Thromb.</i> 14:115-124.
27.	Chang, Y. et al. (1983). "Proteoglycans Synthesized by Smooth Muscle Cells Derived from Monkey (<i>Macaca nemestrina</i>) Aorta," <i>J. Biol. Chem.</i> 258:5679-5688.
28.	Christner, J.E. et al. (1990). "A Competitive Assay of Lipoprotein:Proteoglycan Interaction Using a 96-Well Microtitration Plate," <i>Analytical Biochem.</i> 184:388-394.
29.	Corsini, A. et al. (1987). "Receptor Binding Activity of Lipid Recombinants of Apolipoprotein B-100 Thrombolytic Fragments" <i>J. Lipid Res.</i> 28:1410-1423.
30.	Costa, G. et al. (1994). "Polishing with T4 or Pfu Polymerase Increases the Efficiency of Cloning of PCR Fragments," <i>Nucleic Acids Res.</i> 22:2423
31.	Deng, W. et al. (1992). "Site-Directed Mutagenesis of Virtually Any Plasmid by Eliminating a Unique Site," <i>Anal. Biochem.</i> 200:81-88.
32.	Edwards, I. et al. (1993). "Lipoprotein Lipase Enhances the Interaction of Low Density Lipoproteins with Artery-Derived Extracellular Matrix Proteoglycans," <i>J. Lipid Res.</i> 34:1155-1163.
33.	Eisenberg, S. et al. (1992). "Lipoprotein Lipase Enhances Binding of Lipoproteins to Heparan Sulfate on Cell Surfaces and Extracellular Matrix," <i>J. Clin. Invest.</i> 90:2013-2021.

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| 34. | Gaffney, D. et al. (1995). "Independent Mutations at Codon 3500 of the Apolipoprotein B Gene Are Associated with Hyperlipidemia," <i>Arterioscler. Thromb. Vasc. Biol.</i> 15:1025-1029. |
| 35. | Galis, Z. et al. (1993). "Co-Localization of Aortic Apolipoprotein B and Chondroitin Sulfate in an Injury Model of Atherosclerosis," <i>Am J. Pathol.</i> 142:1432-1438. |
| 36. | Geysen, H.M. et al. (1984). "Use of Peptide Synthesis to Probe Viral Antigens for Epitopes to a Resolution of a Single Amino Acid," <i>Proc. Natl. Acad. Sci. USA</i> 81:3998-4002. |
| 37. | Goldstein, J. et al. (1985). "Receptor-Mediated Endocytosis: Concepts Emerging from the LDL Receptor System," <i>Annu. Rev. Cell Biol.</i> 1:1-39. |
| 38. | Hirose, N. et al. (1987). "Isolation and Characterization of Four Heparin-Binding Cyanogen Bromide Peptides of Human Plasma Apolipoprotein B," <i>Biochemistry</i> 26:5505-5512. |
| 39. | Hobbs, H. et al. (1992). "Molecular Genetics of the LDL Receptor Gene in Familial Hypercholesterolemia," <i>Hum. Mutat.</i> 1:445-466. |
| 40. | Hoff, H et al. (1986). "Plasma Low Density Lipoprotein Accumulation in Aortas of Hypercholesterolemic Swine Correlates with Modifications in Aortic Glycosaminoglycan Composition," <i>Atherosclerosis</i> . 61:231-236. |
| 41. | Hoff, H. et al. (1983). "Apolipoprotein B Localization in Coronary Atherosclerotic Plaques from Cynomolgus Monkeys," <i>Artery</i> 12:104-116. |
| 42. | Hu, G. (1993). "DNA Polymerase-Catalyzed Addition of Nontemplated Extra Nucleotides to the 3' End of a DNA Fragment," <i>DNA and Cell Biology</i> 12:763-770. |
| 43. | Hurt, E. et al. (1987). "Effect of Arterial Proteoglycans on the Interaction of LDL with Human Monocyte-Derived Macrophages," <i>Atherosclerosis</i> 67:115-126. |
| 44. | Hurt, E. et al. (1990). "Interaction of LDL with Human Arterial Proteoglycans Stimulates its Uptake by Human Monocyte-Derived Macrophages," <i>J. Lipid Res.</i> 31:443-454. |
| 45. | Hurt-Camejo, E. et al. (1997). "Cellular Consequences of the Association of apoB Lipoproteins with Proteoglycans," <i>Arterioscler Thromb Vasc Biol.</i> 17:1011-1017. |
| 46. | Innerarity, T. et al. (1987). "Familial Defective Apolipoprotein B-100: Low Density Lipoproteins with Abnormal Receptor Binding," <i>Proc. Natl. Acad. Sci. USA</i> 84:6919-6923. |
| 47. | Innerarity, T. et al. (1990). "Familial Defective Apolipoprotein B-100: A Mutation of Apolipoprotein B that Causes Hypercholesterolemia," <i>J. Lipid Res.</i> 31:1337-1349. |
| 48. | Ismail, N. et al. (1994). "Lipoprotein-Proteoglycan Complexes from Injured Rabbit Aortas Accelerate Lipoprotein Uptake by Arterial Smooth Muscle Cells," <i>Atherosclerosis</i> 105:79-87. |
| 49. | Johnstone, A. et al. (1996). "Purification of Immunoglobulins," <i>Immunochemistry in Practice</i> . Blackwell Scientific Publications; Oxford. p. 69. |
| 50. | Knott, T. et al (1985). "Human Apolipoprotein B: Structure of Carboxyl-Terminal Domains, Sites of Gene Expression, and Chromosomal Localization," <i>Science</i> . 230:37-43. |
| as | 51. Knott, T. et al. (1986). "Complete Protein Sequence and Identification of Structural Domains of Human Apolipoprotein B," <i>Nature</i> 323:734-738. |

EXAMINER:

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52.	Kunkel, Thomas A. (1985). "Rapid and Efficient Site-Specific Mutagenesis Without Phenotypic Selection," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 82:488-492.
53.	Lindén, T. et al. (1989). "Affinity of LDL to a Human Arterial Proteoglycan Among Male Survivors of Myocardial Infarction," <i>Eur. J. Clin. Invest.</i> 19:38-44.
54.	Linton, M. et al. (1993). "Transgenic Mice Expressing High Plasma Concentrations of Human Apolipoprotein B100 and Lipoprotein (a)" <i>J. Clin. Invest.</i> 92:3029-3037.
55.	Mahley, R. et al. (1977). "Inhibition of Lipoprotein Binding to Cell Surface Receptors of Fibroblasts Following Selective Modification of Arginyl Residues in Arginine-Rich and B Apoproteins," <i>J. Biol. Chem.</i> 252:7279-7287.
56.	Mahley, R. et al. (1979). "Interaction of Plasma Lipoproteins Containing Apolipoproteins B and E with Heparin and Cell Surface Receptors," <i>Biochem. Biophys. Acta.</i> 575:81-91.
57.	McCormick, S. et al. (1994). "Expression of PI DNA in Mammalian Cells and Transgenic Mice," <i>Genet. Anal. Tech. Appl.</i> 11:158-164.
58.	Merrilees, M.J. et al. (1990). "Glycosaminoglycan Synthesis by Smooth Muscle Cells of Differing Phenotype and their Response to Endothelial Cell Conditioned Medium," <i>Atherosclerosis</i> 81:245-254.
59.	<u>Methods in Enzymology</u> (1979). Colowick, S. and N. Kaplan, Eds. Academic Press. (Table of Contents).
60.	Milne, R. et al. (1983). "Characterization of Monoclonal Antibodies Against Human Low Density Lipoprotein," <i>Arteriosclerosis</i> 3:23-30.
61.	<u>Molecular Cloning: A Laboratory Manual</u> . (1989). Second Edition. J. Sambrook et al., Eds. Cold Spring Harbor Laboratory Press: Cold Spring Harbor. (Table of Contents).
62.	Mullis, K.B. et al. (1987). "Specific Synthesis of DNA <i>In Vitro</i> Via a Polymerase-Catalyzed Chain Reaction" <i>Methods in Enzymology</i> 155:335-350.
63.	Nelson, M. et al. (1992). "Use of DNA Methyltransferase/Endonuclease Enzyme Combinations for Megabase Mapping of Chromosomes" <i>Methods Enzymol.</i> 216:279-303.
64.	Nivelstein-Post, P. et al. (1994). "An Ultrastructural Study of Lipoprotein Accumulation in Cardiac Valves of the Rabbit" <i>Arterioscler. Thromb.</i> 14:1151-1161.
65.	<u>Nucleic Acid Hybridisation. A Practical Approach</u> . (1985). Hames, B.D. & S. J. Higgins, Eds. IRL Press. (Table of Contents).
66.	<u>Oligonucleotide Synthesis. A Practical Approach</u> . (1984). Gait, M.J. Ed., IRL Press. (Table of Contents).
67.	Olsson, U. et al. (1994). "Possible Functional Interactions of Apolipoprotein B-100 Segments that Associate with Cell Proteoglycans and the ApoB/E Receptor," (1997) <i>Arterioscler. Throm. Vasc. Biol.</i> 17:149-155.
68.	Paananen, K. et al. (1994). "Proteolysis and Fusion of Low Density Lipoprotein Particles Independently Strengthen their Binding to Exocytosed Mast Cell Granules," <i>J. Biol. Chem.</i> 269:2023-2031.
69.	<u>PCR Technology</u> . (1989). Erlich, H.A. Ed. Stockton Press. (Table of Contents).
70.	Pentikäinen, M.O. et al. (1997). "The Proteoglycan Decorin Links Low Density Lipoproteins with Collagen Type I," <i>J. Biol. Chem.</i> 272:7633-7638.

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71.	<u>Protein Purification: Principles and Practice</u> . 2nd Edition. Scopes, R.K., Ed. (1987) Springer-Verlag. (Table of Contents).
72.	Pullinger, C. et al. (1995). "Familial Ligand-Defective Apolipoprotein B" <i>J. Clin. Invest.</i> 95:1225-1234.
73.	Radhakrishnamurthy, B. et al. (1990). "Arterial Wall Proteoglycans - Biological Properties Related to Pathogenesis of Atherosclerosis," <i>Eur. Heart J.</i> 11(Suppl E):148-157.
74.	Ross, R. (1995). "Cell Biology of Atherosclerosis," <i>Annu. Rev. Physiol.</i> 57:791-804.
75.	Saiki, R. et al. (1988). "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491.
76.	Schönherr, E. et al. (1993). "Platelet-Derived Growth Factor and Transforming Growth Factor- β 1 Differentially Affect the Synthesis of Biglycan and Decorin by Monkey Arterial Smooth Muscle Cells," <i>Arterioscler. Thromb.</i> 13:1026-1036.
77.	Schönherr, E. et al., (1991). "Effects of Platelet-Derived Growth Factor and Transforming Growth Factor- β 1 on the Synthesis of a Large Versican-Like Chondroitin Sulfate Proteoglycan by Arterial Smooth Muscle Cells," <i>J. Biol. Chem.</i> 266:17640-17647.
78.	Steele, R. et al. (1987). "Artery Wall Derived Proteoglycan-Plasma Lipoprotein Interaction: Lipoprotein Binding Properties of Extracted Proteoglycans," <i>Atherosclerosis</i> 65:51-62.
79.	van Barlingen, H.H. et al. (1996). "Lipoprotein Lipase-Enhanced Binding of Human Triglyceride-Rich Lipoproteins to Heparan Sulfate: Modulation by Apolipoprotein E and Apolipoprotein C," <i>Journal of Lipid Res.</i> 37:754-763.
80.	Vandeyar, M.A. et al., (1988). "A Simple and Rapid Method for the Selection of Oligodeoxynucleotide-Directed Mutants," <i>Gene</i> 65:129-133.
81.	Walton, K. et al. (1968). "Histological and Immunofluorescent Studies on the Evolution of the Human Atheromatous Plaque," <i>J. Atheroscler. Res.</i> 8:599-624.
82.	Weiner, M. et al. (1994). "Site-Directed Mutagenesis of Double-Stranded DNA by the Polymerase Chain Reaction," <i>Gene</i> 151:119-123.
83.	Weisgraber, K. et al. (1978). "Role of the Lysine Residues of Plasma Lipoproteins in High Affinity Binding to Cell Surface Receptors on Human Fibroblasts," <i>J. Biol. Chem.</i> 253:9053-9062.
84.	Weisgraber, K. et al. (1986). "Human Apolipoprotein E: Determination of the Heparin Binding Sites of Apolipoprotein E3," <i>J. Biol. Chem.</i> 261:2068-2076.
85.	Weisgraber, K. et al. (1987). "Human Apolipoprotein B-100 Heparin-Binding Sites," <i>J. Biol. Chem.</i> 262:11097-11103.
86.	Williams, K.J. et al. (1995). "The Response-to-Retention Hypothesis of Early Atherogenesis," <i>Arterioscler. Thromb. Vasc Biol.</i> 15:551-561.
87.	Yao, Z. et al. (1992). "Elimination of Apolipoprotein B48 Formation in Rat Hepatoma Cell Lines Transfected with Mutant Human Apolipoprotein B cDNA Constructs," <i>J. Biol. Chem.</i> 267:1175-1182.

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